

| Ref # | Hits | Search Query | DBs | Default Operator | Plurals | Time Stamp |
|-------|------|--|--------------------------------|------------------|---------|------------------|
| L3 | 28 | ("6006217").URPN. | USPAT | OR | ON | 2005/10/13 13:58 |
| L4 | 4 | integral adj attribute | USPAT | OR | ON | 2005/10/13 13:59 |
| L5 | 7 | integral adj attribute | US-PGPUB | OR | ON | 2005/10/13 13:59 |
| L6 | 13 | (US-5958008-\$ or US-5963952-\$ or US-6006217-\$ or US-6112203-\$ or US-6202072-\$ or US-6411952-\$ or US-6415294-\$ or US-6470349-\$ or US-6584479-\$ or US-6633868-\$ or US-6654807-\$ or US-6665659-\$ or US-6665837-\$).did. | USPAT | OR | ON | 2005/10/13 14:06 |
| L7 | 1 | 6 and (metadata (meta adj data)) | US-PGPUB; USPAT; IBM_TDB | OR | ON | 2005/10/13 14:21 |
| L8 | 2 | 6 and (merg\$) | US-PGPUB; USPAT; IBM_TDB | OR | ON | 2005/10/13 14:22 |
| L9 | 0 | 6 and (bundl\$) | US-PGPUB; USPAT; IBM_TDB | OR | ON | 2005/10/13 14:21 |
| L10 | 4 | 6 and (synch\$) | US-PGPUB; USPAT; IBM_TDB | OR | ON | 2005/10/13 14:23 |
| L11 | 6 | 6 and (attribut\$) | US-PGPUB; USPAT; IBM_TDB | OR | ON | 2005/10/13 14:25 |
| L12 | 13 | 6 and (defin\$) | US-PGPUB; USPAT; IBM_TDB | OR | ON | 2005/10/13 14:27 |
| L13 | 11 | 6 and (identif\$) | US-PGPUB; USPAT; IBM_TDB | OR | ON | 2005/10/13 14:28 |
| L14 | 2 | (US-6665659-\$ or US-6006217-\$).did. | USPAT | OR | ON | 2005/10/13 14:28 |
| L15 | 1 | 14 and 11 and 12 and 13 | US-PGPUB; USPAT; IBM_TDB | OR | ON | 2005/10/13 14:29 |
| L16 | 1 | 14 and 11 and 12 and 13 and (sav\$ stor\$) | US-PGPUB; USPAT; IBM_TDB | OR | ON | 2005/10/13 14:32 |
| L17 | 1 | 14 and 11 and 12 and 13 and (sav\$ stor\$) and 7 | US-PGPUB; USPAT; IBM_TDB | OR | ON | 2005/10/13 14:35 |
| L18 | 0 | 14 and (identif\$ with content with context with document) | US-PGPUB; USPAT; IBM_TDB | OR | ON | 2005/10/13 14:36 |

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|-----|------|--|--------------------------------|----|-----|------------------|
| L19 | 0 | 14 and (identif\$ with content with context\$ with document) | US-PGPUB; USPAT; IBM_TDB | OR | ON | 2005/10/13 14:37 |
| L20 | 0 | 14 and (identif\$ with content with context\$) | US-PGPUB; USPAT; IBM_TDB | OR | ON | 2005/10/13 14:36 |
| L21 | 0 | 14 and (identif\$ with context\$) | US-PGPUB; USPAT; IBM_TDB | OR | ON | 2005/10/13 14:37 |
| L22 | 1 | 14 and (identif\$ with content\$) | US-PGPUB; USPAT; IBM_TDB | OR | ON | 2005/10/13 14:40 |
| L23 | 0 | 14 and (identif\$ with content\$ with document) | US-PGPUB; USPAT; IBM_TDB | OR | ON | 2005/10/13 14:37 |
| L24 | 0 | 14 and (identif\$ same content same context\$ same document) | US-PGPUB; USPAT; IBM_TDB | OR | ON | 2005/10/13 14:38 |
| L25 | 1 | 14 and (context\$) | US-PGPUB; USPAT; IBM_TDB | OR | ON | 2005/10/13 14:38 |
| L26 | 1 | 14 and (path) | US-PGPUB; USPAT; IBM_TDB | OR | ON | 2005/10/13 14:40 |
| L27 | 1 | 14 and \$1path\$5 | US-PGPUB; USPAT; IBM_TDB | OR | ON | 2005/10/13 14:53 |
| L28 | 1 | 14 and input\$ and parameter | US-PGPUB; USPAT; IBM_TDB | OR | ON | 2005/10/13 14:53 |
| L29 | 558 | (715/530).CCLS. | USPAT; USOCR | OR | OFF | 2005/10/13 16:07 |
| L30 | 698 | (715/501.1).CCLS. | USPAT; USOCR | OR | OFF | 2005/10/13 16:07 |
| L31 | 1086 | (715/513).CCLS. | USPAT; USOCR | OR | OFF | 2005/10/13 16:07 |
| L32 | 123 | (715/522).CCLS. | USPAT; USOCR | OR | OFF | 2005/10/13 16:07 |
| L33 | 1 | ("6112203").PN. | USPAT; USOCR | OR | OFF | 2005/10/13 16:07 |
| L34 | 1 | ("6202072").PN. | USPAT; USOCR | OR | OFF | 2005/10/13 16:07 |
| L35 | 5 | ((("6665837") or ("6415294") or ("6112203") or ("6633868") or ("6411952"))).PN. | USPAT; USOCR | OR | OFF | 2005/10/13 16:07 |
| L36 | 5 | ((("6665837") or ("6415294") or ("6112203") or ("6,633868") or ("6411952"))).PN. | USPAT; USOCR | OR | OFF | 2005/10/13 16:07 |

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|-----|-----|--|-----------------|----|-----|------------------|
| L37 | 0 | bundl\$ same metadata same attribute | USPAT | OR | ON | 2005/10/13 16:07 |
| L38 | 0 | bundl\$ same metadata same attribute | USPAT | OR | ON | 2005/10/13 16:07 |
| L39 | 100 | bundl\$ and metadata and attribute | USPAT | OR | ON | 2005/10/13 16:07 |
| L40 | 0 | bundl\$ with metadata with target | USPAT | OR | ON | 2005/10/13 16:07 |
| L41 | 1 | bundl\$ same metadata same target | USPAT | OR | ON | 2005/10/13 16:07 |
| L42 | 86 | (bundl\$ and metadata and attribute) and ((target destination) and source) | USPAT | OR | ON | 2005/10/13 16:07 |
| L43 | 66 | ((bundl\$ and metadata and attribute) and ((target destination) and source)) and URL | USPAT | OR | ON | 2005/10/13 16:07 |
| L44 | 55 | ((((bundl\$ and metadata and attribute) and ((target destination) and source)) and URL) and (input with parameter) | USPAT | OR | ON | 2005/10/13 16:07 |
| L45 | 0 | ((((bundl\$ and metadata and attribute) and ((target destination) and source)) and URL) and (input with search with query) | USPAT | OR | ON | 2005/10/13 16:07 |
| L46 | 55 | (((((bundl\$ and metadata and attribute) and ((target destination) and source)) and URL) and (input with parameter)) and query | USPAT | OR | ON | 2005/10/13 16:07 |
| L47 | 54 | ((((((bundl\$ and metadata and attribute) and ((target destination) and source)) and URL) and (input with parameter)) and query) and search | USPAT | OR | ON | 2005/10/13 16:07 |
| L48 | 54 | ((((((((bundl\$ and metadata and attribute) and ((target destination) and source)) and URL) and (input with parameter)) and query) and search) and database and network | USPAT | OR | ON | 2005/10/13 16:07 |
| L49 | 42 | (((((((((bundl\$ and metadata and attribute) and ((target destination) and source)) and URL) and (input with parameter)) and query) and search) and database and network) not (international with business with machine).as. | USPAT | OR | ON | 2005/10/13 16:07 |
| L50 | 6 | (US-6112203-\$ or US-6202072-\$ or US-6665837-\$ or US-6633868-\$ or US-6411952-\$ or US-6415294-\$).did. | USPAT | OR | OFF | 2005/10/13 16:07 |
| L51 | 3 | ((("5958008") or ("5963952") or ("6006217")).PN. | USPAT; USOCR | OR | OFF | 2005/10/13 16:07 |

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|-----|------|--|-------|----|-----|------------------|
| L52 | 28 | "6006217".URPN. | USPAT | OR | ON | 2005/10/13 16:07 |
| L53 | 14 | "5963952".URPN. | USPAT | OR | ON | 2005/10/13 16:07 |
| L54 | 55 | "5958008".URPN. | USPAT | OR | ON | 2005/10/13 16:07 |
| L55 | 10 | (US-6112203-\$ or US-6202072-\$ or US-6665837-\$ or US-6633868-\$ or US-6411952-\$ or US-6415294-\$ or US-6006217-\$ or US-5963952-\$ or US-5958008-\$ or US-6665659-\$).did. | USPAT | OR | OFF | 2005/10/13 16:07 |
| L56 | 0 | ((US-6112203-\$ or US-6202072-\$ or US-6665837-\$ or US-6633868-\$ or US-6411952-\$ or US-6415294-\$ or US-6006217-\$ or US-5963952-\$ or US-5958008-\$ or US-6665659-\$).did.) and (path with source with (target destination)) | USPAT | OR | ON | 2005/10/13 16:07 |
| L57 | 4684 | (path with source with (target destination)) | USPAT | OR | ON | 2005/10/13 16:07 |
| L58 | 2 | ("6006217".URPN. "5963952".URPN. "5958008".URPN.) and (path with source with (target destination)) | USPAT | OR | ON | 2005/10/13 16:07 |
| L59 | 2 | ((US-6112203-\$ or US-6202072-\$ or US-6665837-\$ or US-6633868-\$ or US-6411952-\$ or US-6415294-\$ or US-6006217-\$ or US-5963952-\$ or US-5958008-\$ or US-6665659-\$).did.)) and (synchroniz\$) | USPAT | OR | ON | 2005/10/13 16:07 |
| L60 | 17 | ("6006217".URPN. "5963952".URPN. "5958008".URPN.) and (synchroniz\$) | USPAT | OR | ON | 2005/10/13 16:07 |
| L61 | 12 | (US-6415294-\$ or US-6633868-\$ or US-6665837-\$ or US-6202072-\$ or US-6411952-\$ or US-6112203-\$ or US-6006217-\$ or US-5963952-\$ or US-5958008-\$ or US-6665659-\$ or US-6470349-\$ or US-6654807-\$).did. | USPAT | OR | OFF | 2005/10/13 16:07 |
| L62 | 5 | ((US-6415294-\$ or US-6633868-\$ or US-6665837-\$ or US-6202072-\$ or US-6411952-\$ or US-6112203-\$ or US-6006217-\$ or US-5963952-\$ or US-5958008-\$ or US-6665659-\$ or US-6470349-\$ or US-6654807-\$).did.) and attribute | USPAT | OR | ON | 2005/10/13 16:07 |

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|-----|---|--|-------|----|----|------------------|
| L63 | 4 | ((US-6415294-\$ or US-6633868-\$ or US-6665837-\$ or US-6202072-\$ or US-6411952-\$ or US-6112203-\$ or US-6006217-\$ or US-5963952-\$ or US-5958008-\$ or US-6665659-\$ or US-6470349-\$ or US-6654807-\$).did.) and synch\$ | USPAT | OR | ON | 2005/10/13 16:07 |
| L64 | 1 | ((US-6415294-\$ or US-6633868-\$ or US-6665837-\$ or US-6202072-\$ or US-6411952-\$ or US-6112203-\$ or US-6006217-\$ or US-5963952-\$ or US-5958008-\$ or US-6665659-\$ or US-6470349-\$ or US-6654807-\$).did.) and metadata | USPAT | OR | ON | 2005/10/13 16:07 |
| L65 | 1 | ((US-6415294-\$ or US-6633868-\$ or US-6665837-\$ or US-6202072-\$ or US-6411952-\$ or US-6112203-\$ or US-6006217-\$ or US-5963952-\$ or US-5958008-\$ or US-6665659-\$ or US-6470349-\$ or US-6654807-\$).did.) and (input with search with query) | USPAT | OR | ON | 2005/10/13 16:07 |
| L66 | 1 | ((US-6415294-\$ or US-6633868-\$ or US-6665837-\$ or US-6202072-\$ or US-6411952-\$ or US-6112203-\$ or US-6006217-\$ or US-5963952-\$ or US-5958008-\$ or US-6665659-\$ or US-6470349-\$ or US-6654807-\$).did.) and (input with parameter) | USPAT | OR | ON | 2005/10/13 16:07 |
| L67 | 6 | ((US-6415294-\$ or US-6633868-\$ or US-6665837-\$ or US-6202072-\$ or US-6411952-\$ or US-6112203-\$ or US-6006217-\$ or US-5963952-\$ or US-5958008-\$ or US-6665659-\$ or US-6470349-\$ or US-6654807-\$).did.) and (query with search) | USPAT | OR | ON | 2005/10/13 16:07 |
| L68 | 2 | ((US-6415294-\$ or US-6633868-\$ or US-6665837-\$ or US-6202072-\$ or US-6411952-\$ or US-6112203-\$ or US-6006217-\$ or US-5963952-\$ or US-5958008-\$ or US-6665659-\$ or US-6470349-\$ or US-6654807-\$).did.) and (input with search) | USPAT | OR | ON | 2005/10/13 16:07 |

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|-----|----|---|--------------------------------|----|-----|------------------|
| L69 | 4 | ((US-6415294-\$ or US-6633868-\$ or US-6665837-\$ or US-6202072-\$ or US-6411952-\$ or US-6112203-\$ or US-6006217-\$ or US-5963952-\$ or US-5958008-\$ or US-6665659-\$ or US-6470349-\$ or US-6654807-\$).did.) and (input with query) | USPAT | OR | ON | 2005/10/13 16:07 |
| L70 | 12 | (US-6112203-\$ or US-6202072-\$ or US-6665837-\$ or US-6633868-\$ or US-6415294-\$ or US-6411952-\$ or US-6006217-\$ or US-5963952-\$ or US-5958008-\$ or US-6665659-\$ or US-6470349-\$ or US-6654807-\$).did. | USPAT | OR | OFF | 2005/10/13 16:07 |
| L71 | 0 | ((US-6112203-\$ or US-6202072-\$ or US-6665837-\$ or US-6633868-\$ or US-6415294-\$ or US-6411952-\$ or US-6006217-\$ or US-5963952-\$ or US-5958008-\$ or US-6665659-\$ or US-6470349-\$ or US-6654807-\$).did.) and (sav\$ with database) and (network internet www online on-line) | US-PGPUB; USPAT; IBM_TDB | OR | ON | 2005/10/13 16:07 |
| L72 | 5 | ((US-6112203-\$ or US-6202072-\$ or US-6665837-\$ or US-6633868-\$ or US-6415294-\$ or US-6411952-\$ or US-6006217-\$ or US-5963952-\$ or US-5958008-\$ or US-6665659-\$ or US-6470349-\$ or US-6654807-\$).did.) and ((sav\$ stor\$) with database) | US-PGPUB; USPAT; IBM_TDB | OR | ON | 2005/10/13 16:07 |
| L73 | 4 | ((((US-6112203-\$ or US-6202072-\$ or US-6665837-\$ or US-6633868-\$ or US-6415294-\$ or US-6411952-\$ or US-6006217-\$ or US-5963952-\$ or US-5958008-\$ or US-6665659-\$ or US-6470349-\$ or US-6654807-\$).did.) and ((sav\$ stor\$) with database)) and (network internet www online on-line) | US-PGPUB; USPAT; IBM_TDB | OR | ON | 2005/10/13 16:07 |
| L74 | 1 | ((US-6112203-\$ or US-6202072-\$ or US-6665837-\$ or US-6633868-\$ or US-6415294-\$ or US-6411952-\$ or US-6006217-\$ or US-5963952-\$ or US-5958008-\$ or US-6665659-\$ or US-6470349-\$ or US-6654807-\$).did.) and (sav\$ with database) | US-PGPUB; USPAT; IBM_TDB | OR | ON | 2005/10/13 16:07 |

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|-----|-----|--|--------------------------------|----|-----|------------------|
| L75 | 2 | ((US-6112203-\$ or US-6202072-\$ or US-6665837-\$ or US-6633868-\$ or US-6415294-\$ or US-6411952-\$ or US-6006217-\$ or US-5963952-\$ or US-5958008-\$ or US-6665659-\$ or US-6470349-\$ or US-6654807-\$).did.) and (merg\$) | US-PGPUB; USPAT; IBM_TDB | OR | ON | 2005/10/13 16:07 |
| L76 | 12 | ((US-6112203-\$ or US-6202072-\$ or US-6665837-\$ or US-6633868-\$ or US-6415294-\$ or US-6411952-\$ or US-6006217-\$ or US-5963952-\$ or US-5958008-\$ or US-6665659-\$ or US-6470349-\$ or US-6654807-\$).did.) and (content\$ context\$) | US-PGPUB; USPAT; IBM_TDB | OR | ON | 2005/10/13 16:07 |
| L77 | 3 | ((US-6112203-\$ or US-6202072-\$ or US-6665837-\$ or US-6633868-\$ or US-6415294-\$ or US-6411952-\$ or US-6006217-\$ or US-5963952-\$ or US-5958008-\$ or US-6665659-\$ or US-6470349-\$ or US-6654807-\$).did.) and (content\$ with context\$) | US-PGPUB; USPAT; IBM_TDB | OR | ON | 2005/10/13 16:07 |
| L78 | 3 | ((US-6112203-\$ or US-6202072-\$ or US-6665837-\$ or US-6633868-\$ or US-6415294-\$ or US-6411952-\$ or US-6006217-\$ or US-5963952-\$ or US-5958008-\$ or US-6665659-\$ or US-6470349-\$ or US-6654807-\$).did.) and (content\$ same context\$) | US-PGPUB; USPAT; IBM_TDB | OR | ON | 2005/10/13 16:07 |
| L79 | 6 | ((US-6112203-\$ or US-6202072-\$ or US-6665837-\$ or US-6633868-\$ or US-6415294-\$ or US-6411952-\$ or US-6006217-\$ or US-5963952-\$ or US-5958008-\$ or US-6665659-\$ or US-6470349-\$ or US-6654807-\$).did.) and (content\$ and context\$) | US-PGPUB; USPAT; IBM_TDB | OR | ON | 2005/10/13 16:07 |
| L80 | 8 | ((US-6112203-\$ or US-6202072-\$ or US-6665837-\$ or US-6633868-\$ or US-6415294-\$ or US-6411952-\$ or US-6006217-\$ or US-5963952-\$ or US-5958008-\$ or US-6665659-\$ or US-6470349-\$ or US-6654807-\$).did.) and (path) | US-PGPUB; USPAT; IBM_TDB | OR | ON | 2005/10/13 16:07 |
| L81 | 1 | ("6584479").PN. | USPAT; USOCR | OR | OFF | 2005/10/13 16:07 |
| L82 | 497 | merg\$ with attribut\$ | USPAT | OR | OFF | 2005/10/13 16:07 |
| L83 | 0 | merg\$ with attribut\$ with integral | USPAT | OR | OFF | 2005/10/13 16:07 |
| L84 | 13 | (merg\$ with attribut\$) same (source and (target destination)) | USPAT | OR | OFF | 2005/10/13 16:07 |

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|-----|-----|---|--------------------------------|----|-----|------------------|
| L85 | 14 | (merg\$ with attribut\$) same (source and (target destination)) | USPAT | OR | ON | 2005/10/13 16:07 |
| L86 | 497 | merg\$ with attribut\$ | USPAT | OR | ON | 2005/10/13 16:07 |
| L87 | 14 | (merg\$ with attribut\$) same (source and (target destination)) | USPAT | OR | ON | 2005/10/13 16:07 |
| L88 | 13 | (US-6112203-\$ or US-6202072-\$ or US-6665837-\$ or US-6633868-\$ or US-6415294-\$ or US-6411952-\$ or US-6006217-\$ or US-5963952-\$ or US-5958008-\$ or US-6665659-\$ or US-6470349-\$ or US-6654807-\$ or US-6584479-\$).did. | USPAT | OR | OFF | 2005/10/13 16:07 |
| L89 | 4 | ((US-6112203-\$ or US-6202072-\$ or US-6665837-\$ or US-6633868-\$ or US-6415294-\$ or US-6411952-\$ or US-6006217-\$ or US-5963952-\$ or US-5958008-\$ or US-6665659-\$ or US-6470349-\$ or US-6654807-\$ or US-6584479-\$).did.) and navigat\$ | US-PGPUB; USPAT; IBM_TDB | OR | ON | 2005/10/13 16:07 |
| L90 | 8 | ((US-6112203-\$ or US-6202072-\$ or US-6665837-\$ or US-6633868-\$ or US-6415294-\$ or US-6411952-\$ or US-6006217-\$ or US-5963952-\$ or US-5958008-\$ or US-6665659-\$ or US-6470349-\$ or US-6654807-\$ or US-6584479-\$).did.) and path\$ | US-PGPUB; USPAT; IBM_TDB | OR | ON | 2005/10/13 16:07 |
| L91 | 7 | ((US-6112203-\$ or US-6202072-\$ or US-6665837-\$ or US-6633868-\$ or US-6415294-\$ or US-6411952-\$ or US-6006217-\$ or US-5963952-\$ or US-5958008-\$ or US-6665659-\$ or US-6470349-\$ or US-6654807-\$ or US-6584479-\$).did.) and parameter | US-PGPUB; USPAT; IBM_TDB | OR | ON | 2005/10/13 16:07 |
| L92 | 4 | ((US-6112203-\$ or US-6202072-\$ or US-6665837-\$ or US-6633868-\$ or US-6415294-\$ or US-6411952-\$ or US-6006217-\$ or US-5963952-\$ or US-5958008-\$ or US-6665659-\$ or US-6470349-\$ or US-6654807-\$ or US-6584479-\$).did.) and parameter and query | US-PGPUB; USPAT; IBM_TDB | OR | ON | 2005/10/13 16:07 |
| L93 | 2 | ((US-6112203-\$ or US-6202072-\$ or US-6665837-\$ or US-6633868-\$ or US-6415294-\$ or US-6411952-\$ or US-6006217-\$ or US-5963952-\$ or US-5958008-\$ or US-6665659-\$ or US-6470349-\$ or US-6654807-\$ or US-6584479-\$).did.) and (parameter same (query search)) | US-PGPUB; USPAT; IBM_TDB | OR | ON | 2005/10/13 16:07 |


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|------|-------|--|--------------------------------|----|-----|------------------|
| L94 | 8 | ((US-6112203-\$ or US-6202072-\$ or US-6665837-\$ or US-6633868-\$ or US-6415294-\$ or US-6411952-\$ or US-6006217-\$ or US-5963952-\$ or US-5958008-\$ or US-6665659-\$ or US-6470349-\$ or US-6654807-\$ or US-6584479-\$).did.) and query | US-PGPUB; USPAT; IBM_TDB | OR | ON | 2005/10/13 16:07 |
| L95 | 13 | (US-5958008-\$ or US-5963952-\$ or US-6006217-\$ or US-6112203-\$ or US-6202072-\$ or US-6411952-\$ or US-6415294-\$ or US-6470349-\$ or US-6584479-\$ or US-6633868-\$ or US-6654807-\$ or US-6665659-\$ or US-6665837-\$).did. | USPAT | OR | ON | 2005/10/13 16:07 |
| L96 | 5 | L95 and attribute | US-PGPUB; USPAT; IBM_TDB | OR | ON | 2005/10/13 16:07 |
| L97 | 6 | L95 and attribut\$ | US-PGPUB; USPAT; IBM_TDB | OR | ON | 2005/10/13 16:07 |
| L98 | 0 | shah.pa. | US-PGPUB; USPAT; IBM_TDB | OR | ON | 2005/10/13 16:07 |
| L99 | 5289 | shah.xp. | US-PGPUB; USPAT; IBM_TDB | OR | ON | 2005/10/13 16:07 |
| L100 | 0 | shah.xp. with sanjvi.xp. | US-PGPUB; USPAT; IBM_TDB | OR | ON | 2005/10/13 16:07 |
| L101 | 268 | shah.xp. with sanjiv.xp. | US-PGPUB; USPAT; IBM_TDB | OR | ON | 2005/10/13 16:07 |
| L102 | 13370 | ("715").CLAS. | USPAT | OR | OFF | 2005/10/13 16:07 |
| L103 | 268 | sanjiv.xp. | USPAT | OR | ON | 2005/10/13 16:07 |
| L104 | 100 | L101 and L102 | USPAT | OR | ON | 2005/10/13 16:07 |
| L105 | 26 | L104 and review\$ | USPAT | OR | ON | 2005/10/13 16:07 |

Terms used

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Best 200 shown

Releva

1 [Fast detection of communication patterns in distributed executions](#)

Thomas Kunz, Michiel F. H. Seuren

November 1997 **Proceedings of the 1997 conference of the Centre for Advanced Studies on Collaborative r**

Full text available:  [pdf\(4.21 MB\)](#)


Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

Understanding distributed applications is a tedious and difficult task. Visualizations based on process-time diagrams are used to obtain a better understanding of the execution of the application. The visualization tool we use is Poet, a tracer developed at the University of Waterloo. However, these diagrams are often very complex and do not provide with the desired overview of the application. In our experience, such tools display repeated occurrences of non-terminating communication patterns.

2 [Model-driven development of Web applications: the AutoWeb system](#)

Piero Fraternali, Paolo Paolini

October 2000 **ACM Transactions on Information Systems (TOIS)**, Volume 18 Issue 4

Full text available:  [pdf\(6.94 MB\)](#)

Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)


This paper describes a methodology for the development of WWW applications and a tool environment specific to the methodology. The methodology and the development environment are based upon models and techniques from the hypermedia, information systems, and software engineering fields, adapted and blended in an original mix. The foundation of the proposal is the conceptual design of WWW applications, using HDM-lite, a notation for the specification of structure, navigation, and presentation.

Keywords: HTML, WWW, application, development, intranet, modeling

3 [The model-assisted global query system for multiple databases in distributed enterprises](#)

Waiman Cheung, Cheng Hsu

October 1996 **ACM Transactions on Information Systems (TOIS)**, Volume 14 Issue 4

Full text available:  [pdf\(697.73 KB\)](#)


Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

Today's enterprises typically employ multiple information systems, which are independently developed, locally administered, and different in logical or physical designs. Therefore, a fundamental challenge in enterprise information management is the sharing of information for enterprise users across organizational boundaries; this requires a global query system providing on-line intelligent assistance to users. Conventional technologies, such as schema-based query languages, are not well suited for this purpose.

4 [Special issue: AI in engineering](#)

D. Sriram, R. Joobani

April 1985 **ACM SIGART Bulletin**, Issue 92

Full text available:  [pdf\(8.79 MB\)](#)

Additional Information: [full citation](#), [abstract](#)


The papers in this special issue were compiled from responses to the announcement in the July 1984 issue of the newsletter and notices posted over the ARPAnet. The interest being shown in this area is reflected in the sixty papers submitted.

from over six countries. About half the papers were received over the computer network.

5 A structural view of the Cedar programming environment

Daniel C. Swinehart, Polle T. Zellweger, Richard J. Beach, Robert B. Hagmann

August 1986 **ACM Transactions on Programming Languages and Systems (TOPLAS)**, Volume 8 Issue 4



Full text available:  [pdf\(6.32 MB\)](#)

Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

This paper presents an overview of the Cedar programming environment, focusing on its overall structure—that components of Cedar and the way they are organized. Cedar supports the development of programs written in a programming language, also called Cedar. Its primary purpose is to increase the productivity of programmers who include experimental programming and the development of prototype software systems for a high-performance computer. T ...

6 Computing curricula 2001

September 2001 **Journal on Educational Resources in Computing (JERIC)**


Full text available:  [pdf\(613.63 KB\)](#)  [html\(2.78 KB\)](#)

Additional Information: [full citation](#), [references](#), [citations](#), [index terms](#)

7 Model-driven design and deployment of service-enabled web applications

Ioana Manolescu, Marco Brambilla, Stefano Ceri, Sara Comai, Piero Fraternali

August 2005 **ACM Transactions on Internet Technology (TOIT)**, Volume 5 Issue 3

Full text available:  [pdf\(3.07 MB\)](#)

Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)



Significant effort is currently invested in application integration, enabling business processes of different companies and forming complex multiparty processes. Web service standards, based on WSDL (Web Service Definition Language), have been adopted as process-to-process communication paradigms. However, the conceptual modeling of application services has not yet been addressed. Interaction with Web services is often specified at the level of the source code. Web services ...

Keywords: UML, Web application, Web services, WebML, modeling

8 The FINITE STRING Newsletter: Abstracts of current literature

Computational Linguistics Staff

January 1987 **Computational Linguistics**, Volume 13 Issue 1-2


Full text available:  [pdf\(6.15 MB\)](#)  [Publisher Site](#)

Additional Information: [full citation](#)

9 Writing the web: Supporting management reporting: a writable web case study

Timothy Miles-Board, Leslie Carr, Simon Kampa, Wendy Hall

May 2003 **Proceedings of the 12th international conference on World Wide Web**

Full text available:  [pdf\(1.17 MB\)](#)

Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

The World-Wide Web was originally developed as a shared, writable, hypertext medium, a facility that is still widely needed. We have recently developed a Web-based management reporting system for a legal firm in an attempt to increase efficiency and management of their overall business process. This paper shares our experiences in relating the firm's writing and issue tracking tasks to existing Web, open hypermedia, and Semantic Web research, and describes how we developed a new ...

Keywords: hypertext writing, management reporting, open hypermedia, structural computing

10 Semantic interfaces and OWL tools: How to make a semantic web browser

D. A. Quan, R. Karger

May 2004 **Proceedings of the 13th international conference on World Wide Web**

Full text available:  [pdf\(484.00 KB\)](#)

Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)


Two important architectural choices underlie the success of the Web: numerous, independently operated servers

common protocol, and a single type of client the Web browser provides point-and-click access to the content and these decentralized servers. However, because HTML marries content and presentation into a single representation are often stuck with inappropriate choices made by the Web site designer of how to work with and view the content metadata on the ...

Keywords: bioinformatics, rdf, semantic web, user interface, web services

11 Fast and flexible application-level networking on exokernel systems

Gregory R. Ganger, Dawson R. Engler, M. Frans Kaashoek, Hector M. Briceño, Russell Hunt, Thomas Pinckney
February 2002 **ACM Transactions on Computer Systems (TOCS)**, Volume 20 Issue 1

Full text available:  pdf(500.67 KB)


Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

Application-level networking is a promising software organization for improving performance and functionality for network services. The Xok/ExOS exokernel system includes application-level support for standard network services at the same time allowing application writers to specialize networking services. This paper describes how Xok/ExOS mechanisms and library operating system organization achieve this flexibility, and retrospectively shares our experience ...

Keywords: Extensible systems, OS structure, fast servers, network services

12 Document querying and transformation: A three-way merge for XML documents

Tancred Lindholm
October 2004 **Proceedings of the 2004 ACM symposium on Document engineering**

Full text available:  pdf(500.99 KB)

Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)


Three-way merging is a technique that may be employed for reintegrating changes to a document in cases where independently modified copies have been made. While tools for three-way merge of ASCII text files exist in the ubiquitous diff and patch tools these are of limited applicability to XML documents.

We present a method for three-way merging of XML which is targeted at merging XML formats that model human documents as ordered trees (e.g. rich text formats) ...

Keywords: XML, collaborative editing, conflict, structured text, three-way merge

13 Interactive Editing Systems: Part II


Norman Meyrowitz, Andries van Dam
September 1982 **ACM Computing Surveys (CSUR)**, Volume 14 Issue 3

Full text available:  pdf(9.17 MB)

Additional Information: [full citation](#), [references](#), [citations](#), [index terms](#)

14 Pen computing: a technology overview and a vision

André Meyer
July 1995 **ACM SIGCHI Bulletin**, Volume 27 Issue 3


Full text available:  pdf(5.14 MB)

Additional Information: [full citation](#), [abstract](#), [citations](#), [index terms](#)

This work gives an overview of a new technology that is attracting growing interest in public as well as in the computer industry itself. The visible difference from other technologies is in the use of a pen or pencil as the primary means of interaction between a user and a machine, picking up the familiar pen and paper interface metaphor. From this list of consequences that will be analyzed and put into context with other emerging technologies and visions. Starting with a historic ...

15 Information retrieval on the web

Mei Kobayashi, Koichi Takeda
June 2000 **ACM Computing Surveys (CSUR)**, Volume 32 Issue 2

Full text available:  pdf(213.89 KB)

Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

In this paper we review studies of the growth of the Internet and technologies that are useful for information search and retrieval on the Web. We present data on the Internet from several different sources, e.g., current as well as previous number of users, hosts, and Web sites. Although numerical figures vary, overall trends cited by the sources are ...


point to exponential growth in the past and in the coming decade. Hence it is not surprising that about 85% of IT user ...

Keywords: Internet, World Wide Web, clustering, indexing, information retrieval, knowledge management, search

16 System technology: Supporting activity-centric collaboration through peer-to-peer shared objects

Werner Geyer, Jürgen Vogel, Li-Te Cheng, Michael Muller

November 2003 **Proceedings of the 2003 international ACM SIGGROUP conference on Supporting group work**

Full text available:  pdf(366.92 KB)

Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)


We describe a new collaborative technology that is mid-way between the informality of email and the formality of workspaces. Email and other ad hoc collaboration systems are typically lightweight and flexible, but build up an unmanageable clutter of copied objects. At the other extreme, shared workspaces provide formal, structured collaboration but are too heavyweight for users to set up. To bridge this gap between the ad hoc and formal, this paper introduces the notion of "object-centric" collaboration.

Keywords: activity-centric collaboration, emerging collaboration, object-centric sharing, peer-to-peer, replication, synchronization

17 MultiMedia: Context perception in video-based hypermedia spaces

Teresa Chambel, Nuno Guimarães

June 2002 **Proceedings of the thirteenth ACM conference on Hypertext and hypermedia**

Full text available:  pdf(648.49 KB)

Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#), [review](#)


Multimedia hypertext has grown from the basic addition of dynamic media only at "leaf" nodes of the hypertext, to structured attempts to compose and integrate the different media. One of the core problems in this evolution has still is, the construction and perception of context, making explicit which part of a presentation is relevant when elements are integrated. The search for contextualized integration of video material with other sources of information has emerged from ...

Keywords: HTIMEL, cognitive processes, design, education, entertainment, hypervideo, integration in context, video and TV, link awareness

18 Document management: Context representation, transformation and comparison for ad hoc product data exchange

Jingzhi Guo, Chengzheng Sun

November 2003 **Proceedings of the 2003 ACM symposium on Document engineering**

Full text available:  pdf(275.65 KB)

Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)


Product data exchange is the precondition of business interoperability between Web-based firms. However, millions of small and medium sized enterprises (SMEs) encode their Web product data in ad hoc formats for electronic product catalogues, which prevents product data exchange between business partners for business interoperability. To solve this problem, the authors proposed a novel concept-centric catalogue engineering approach for representing, transforming and comparing product contexts in a ...

Keywords: XML product map, XPM, ad hoc product data exchange, concept, context comparison, context representation, context transformation, electronic commerce, electronic product catalogue, product data integration, semantics

19 Tools and approaches for developing data-intensive Web applications: a survey

Piero Fraternali

September 1999 **ACM Computing Surveys (CSUR)**, Volume 31 Issue 3

Full text available:  pdf(524.80 KB)

Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)


The exponential growth and capillary diffusion of the Web are nurturing a novel generation of applications, characterized by a direct business-to-customer relationship. The development of such applications is a hybrid between traditional Internet development and Hypermedia authoring, and challenges the existing tools and approaches for software product development. This paper investigates the current situation of Web development tools, both in the commercial and research fields, by identifying their characteristics ...

Keywords: HTML, Intranet, WWW, application, development

20 Spoken dialogue technology: enabling the conversational user interface

Michael F. McTear

March 2002 **ACM Computing Surveys (CSUR)**, Volume 34 Issue 1

Full text available:  [pdf\(987.69 KB\)](#)

Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#), [review](#)

Spoken dialogue systems allow users to interact with computer-based applications such as databases and expert systems using natural spoken language. The origins of spoken dialogue systems can be traced back to Artificial Intelligence in the 1950s concerned with developing conversational interfaces. However, it is only within the last decade or so, advances in speech technology, that large-scale working systems have been developed and, in some cases, introduced into commerce ...

Keywords: Dialogue management, human computer interaction, language generation, language understanding, speech recognition, speech synthesis

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